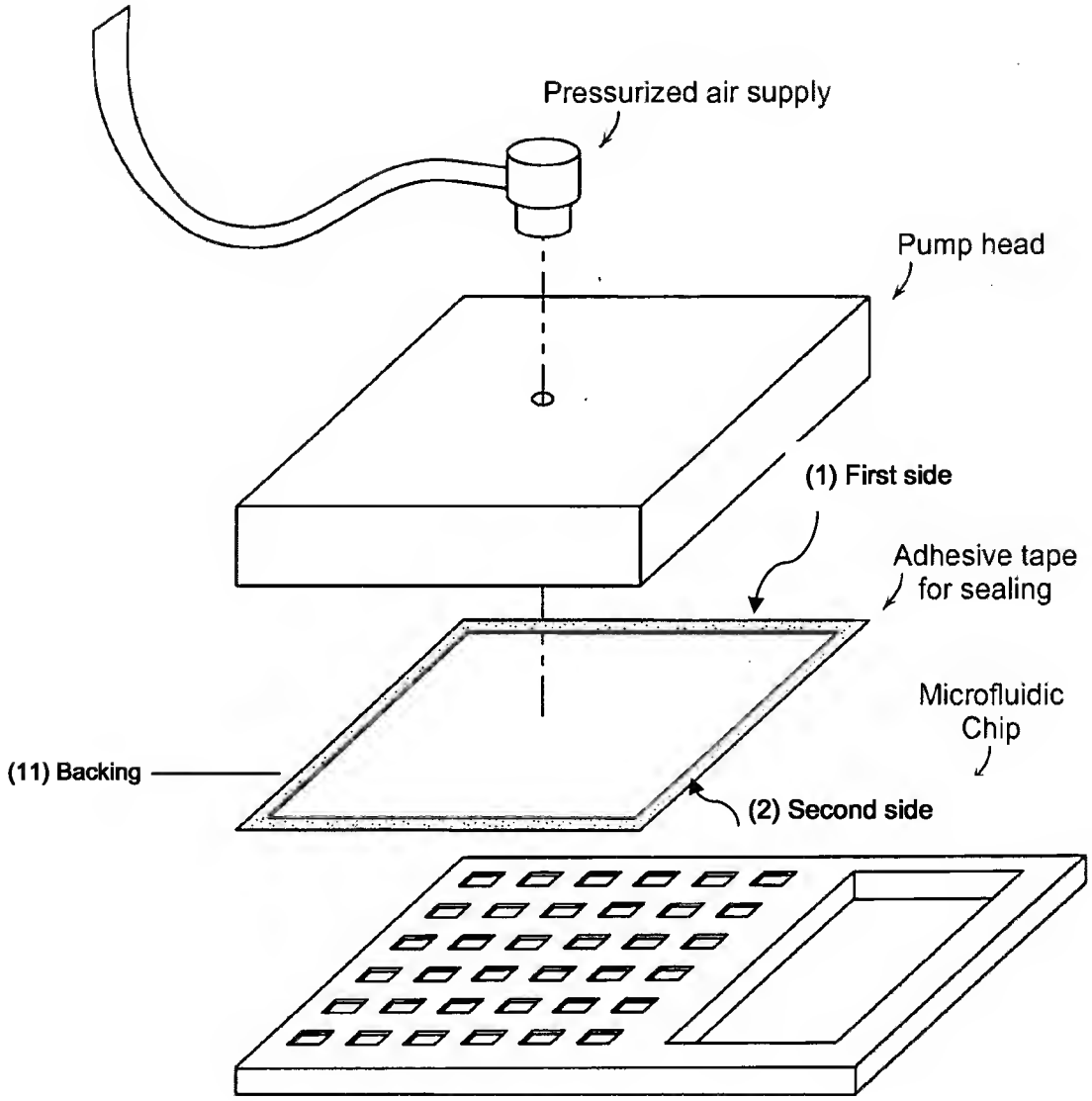
Pressurized air supply
Pump head
(1) First side
Adhesive tape
for sealing
Microfluidic
Chip
(11) Backing
(2) Second side

FIG. 1A

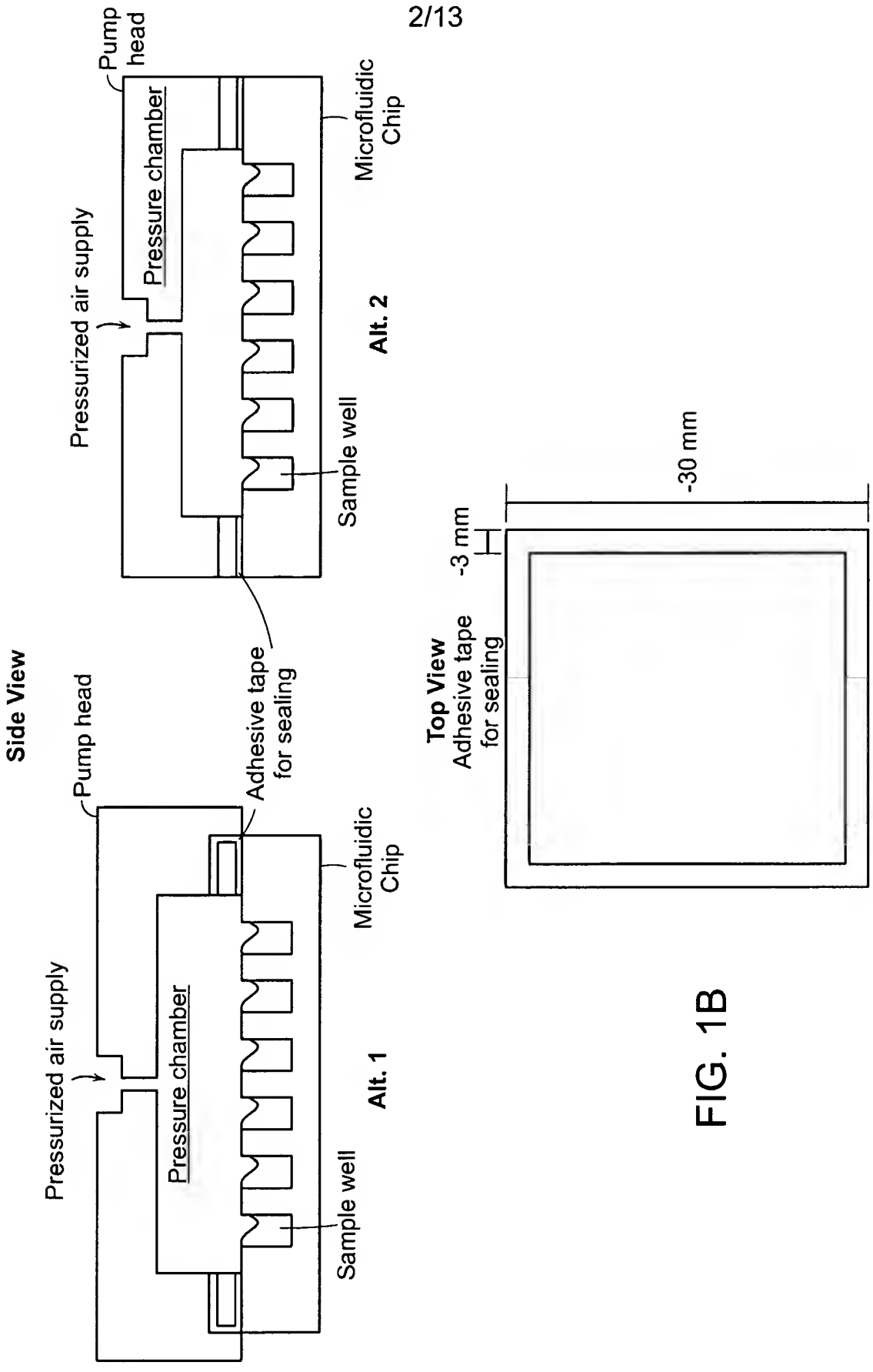
Side View
Pump head
Pressurized air supply
Pressure chamber
Microfluidic Chip
Sample well
Alt. 1
Adhesive tape for sealing
Alt. 2
Top View
Adhesive tape for sealing
-3 mm
-30 mm

FIG. 1B

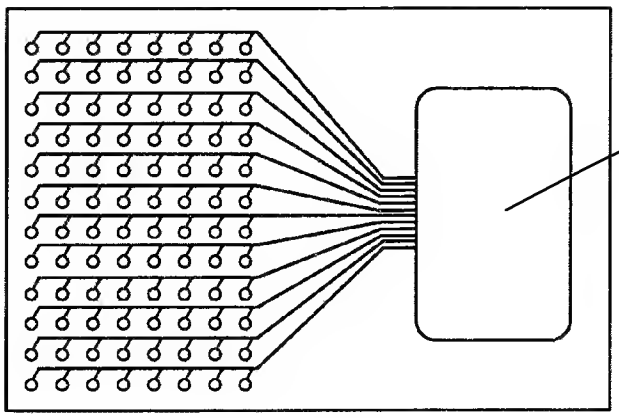

FIG. 2A

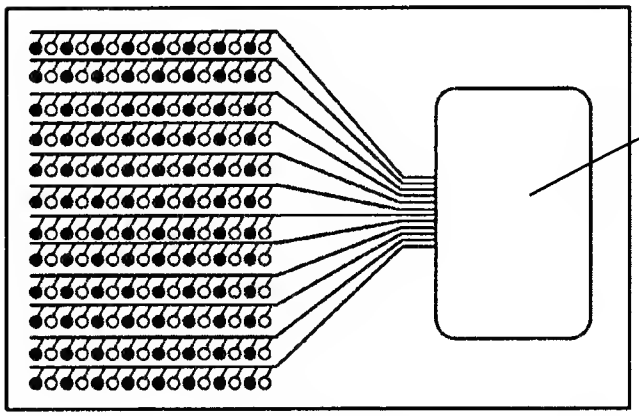

FIG. 2B

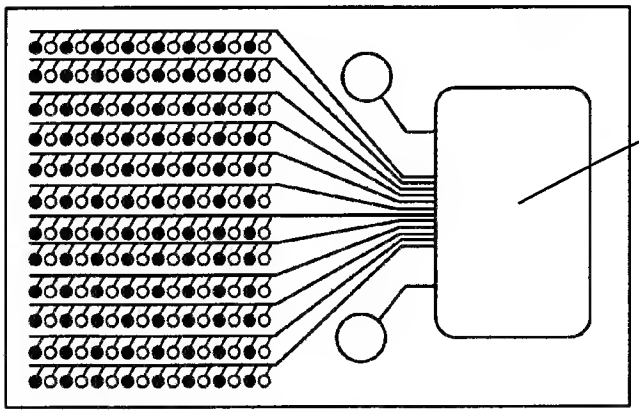

FIG. 2C

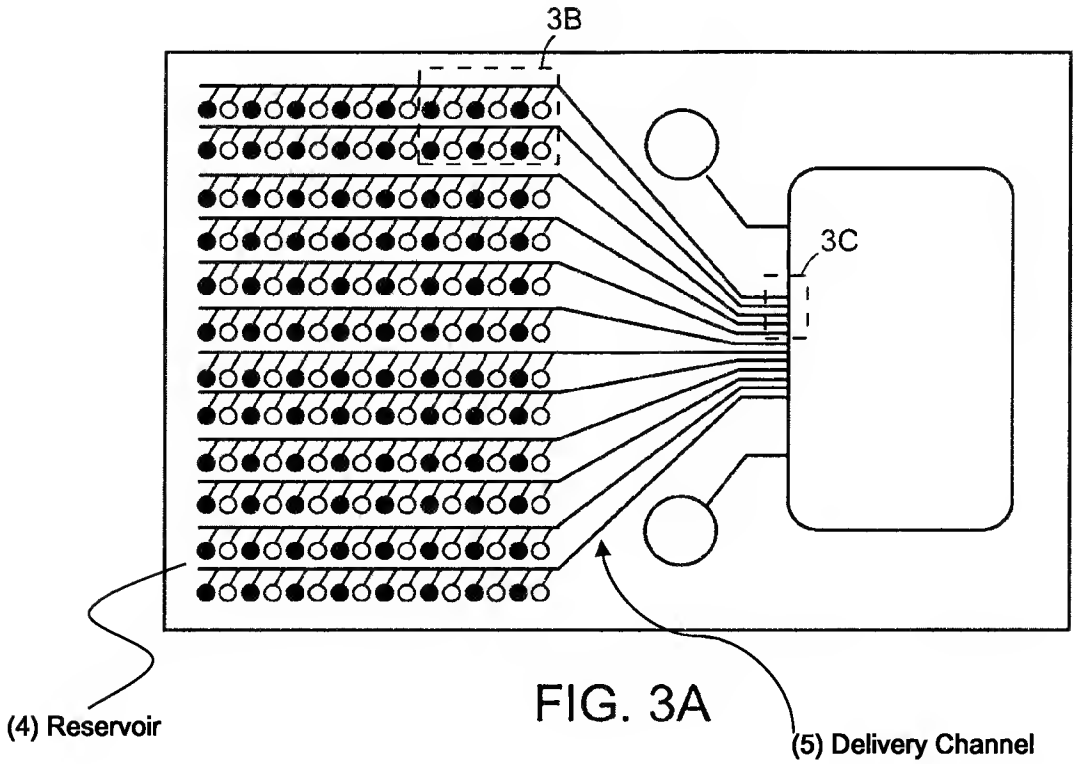

FIG. 3A

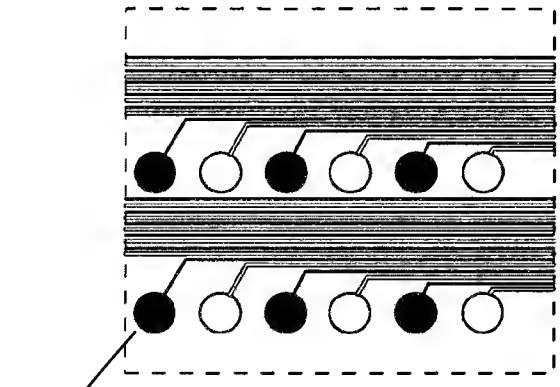

FIG. 3B

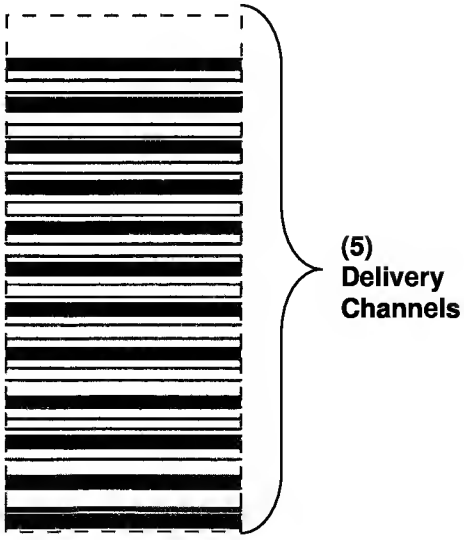

FIG. 3C

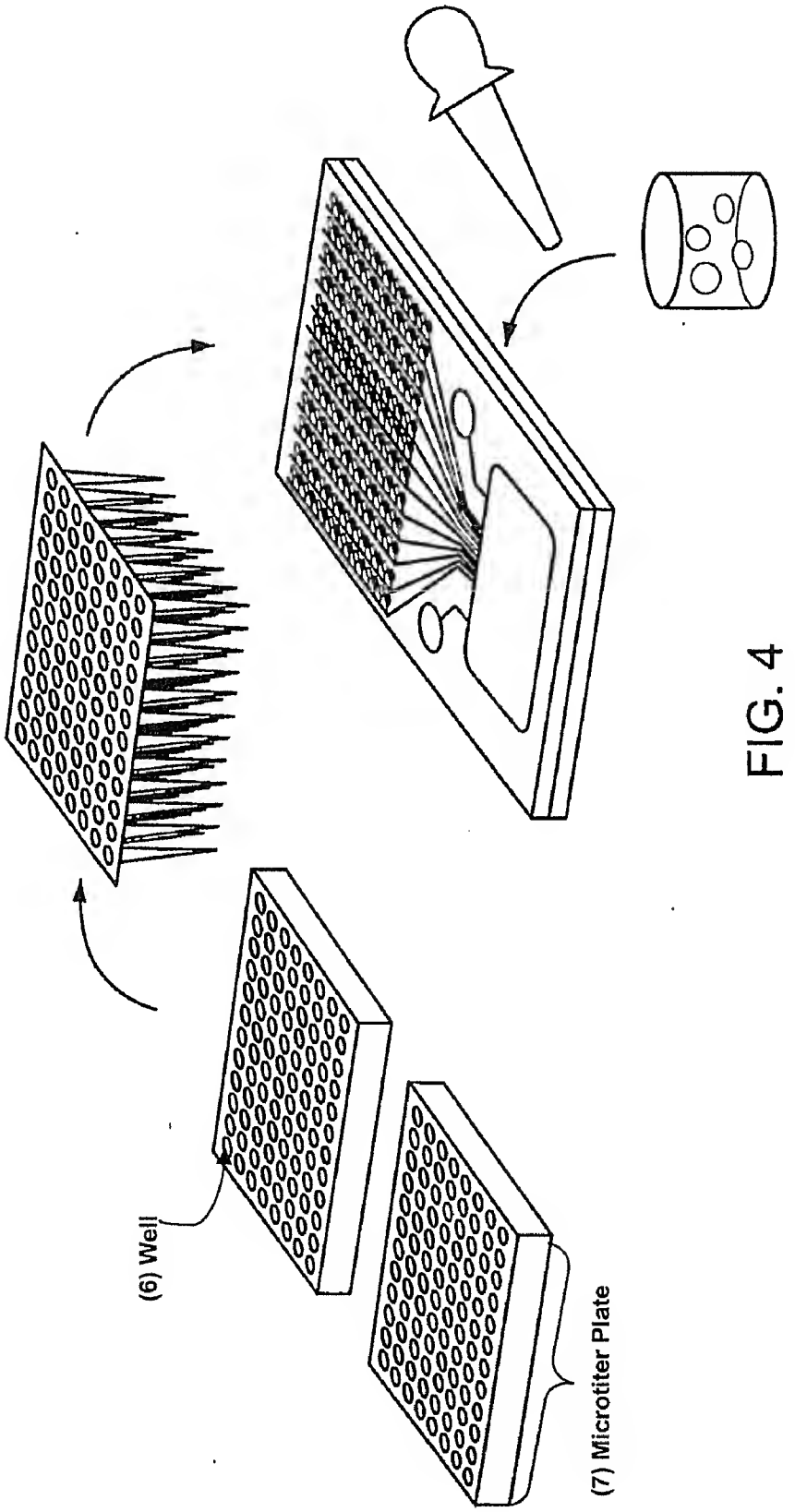

FIG. 4

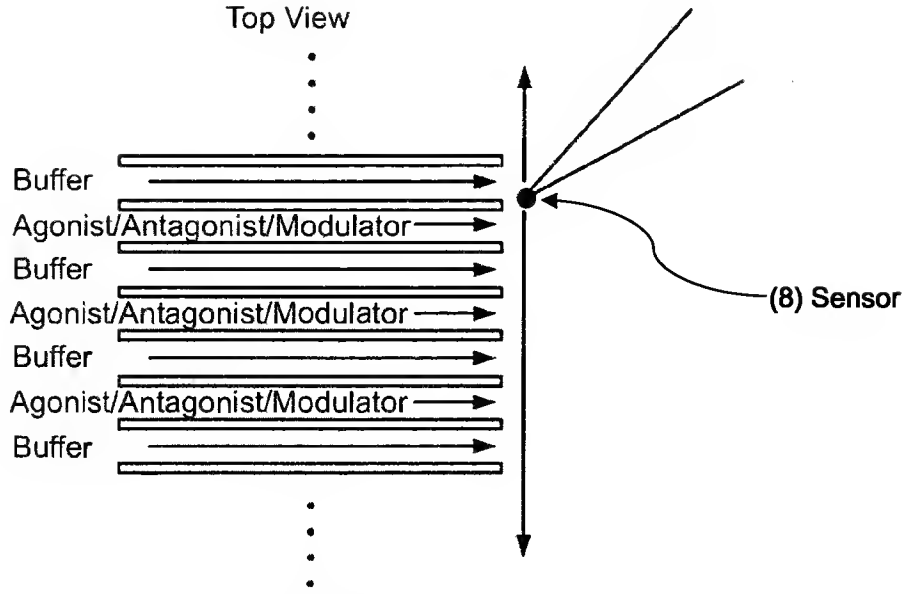

FIG. 5A

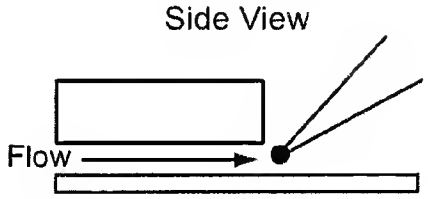

FIG. 5B

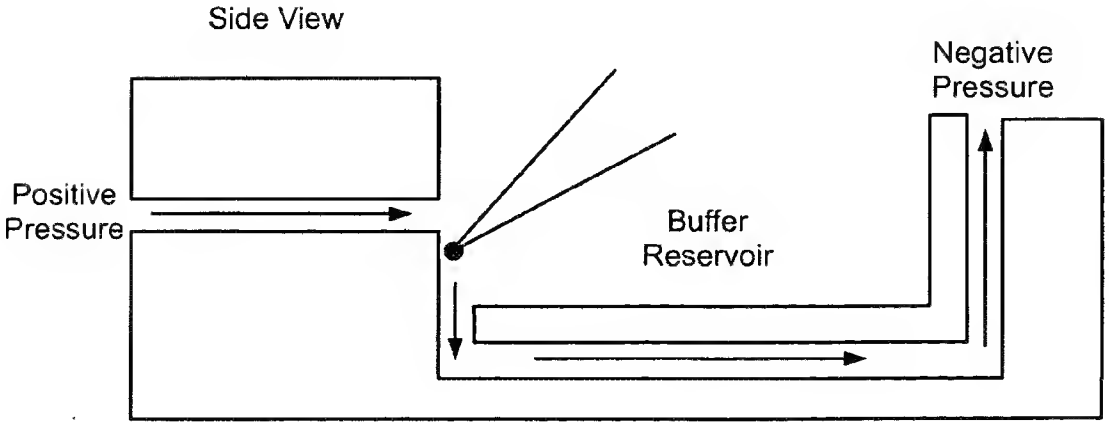

FIG. 5C

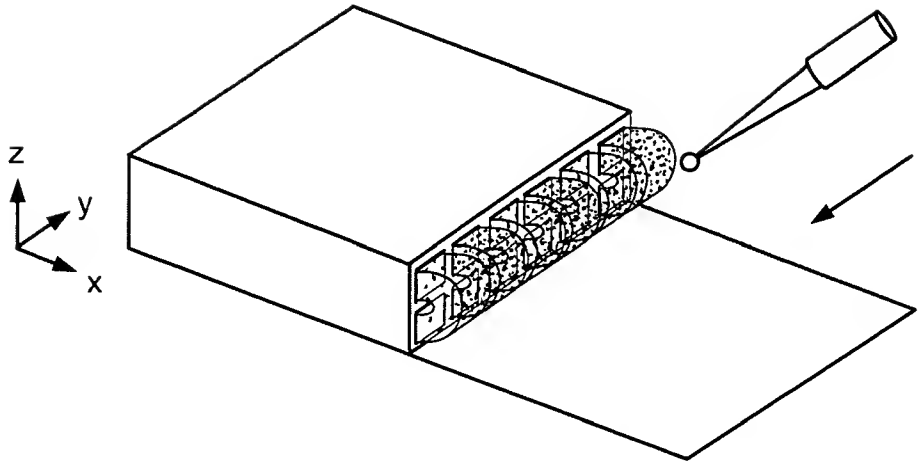

FIG. 5D

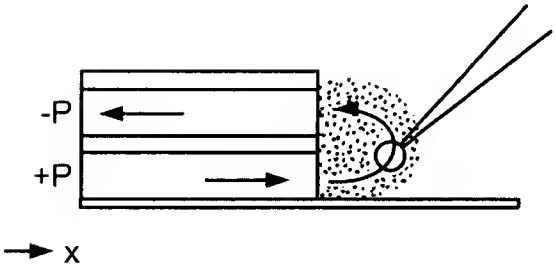

FIG. 5E

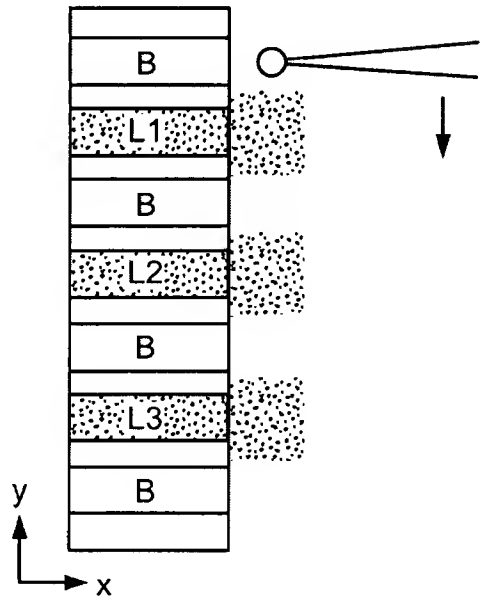

FIG. 5F

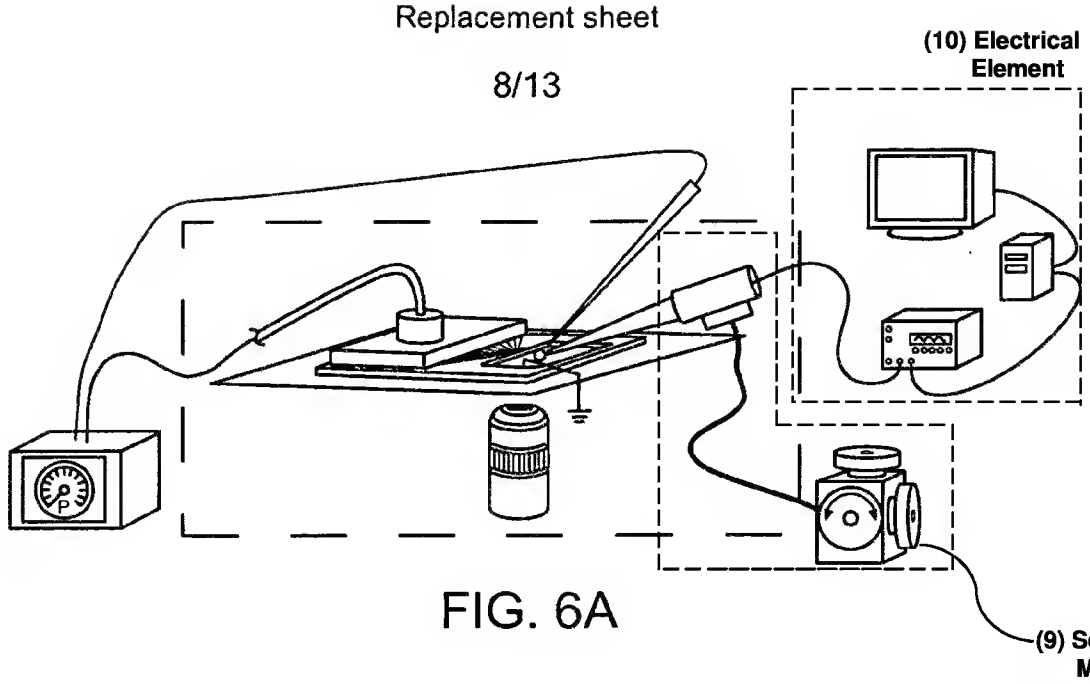

FIG. 6A

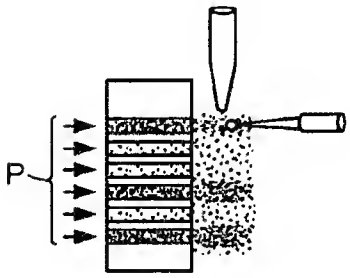

FIG. 6B

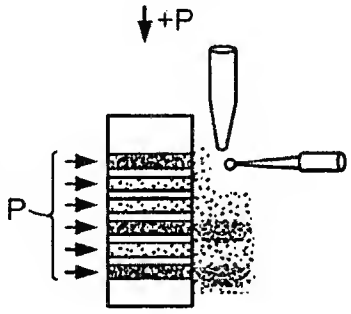

FIG. 6C

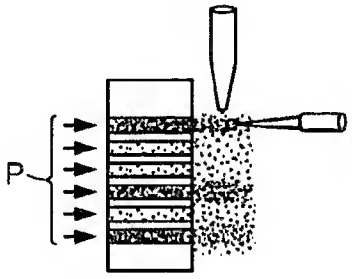

FIG. 6D

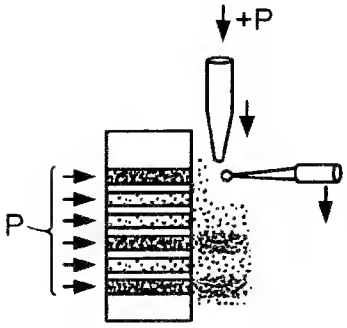

FIG. 6E

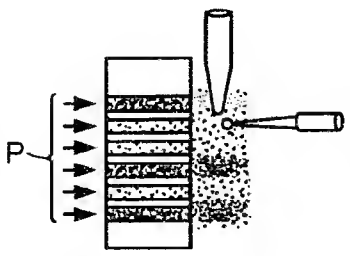

FIG. 6F

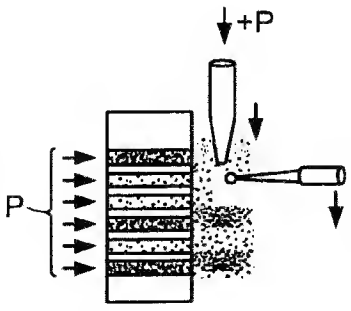

FIG. 6G

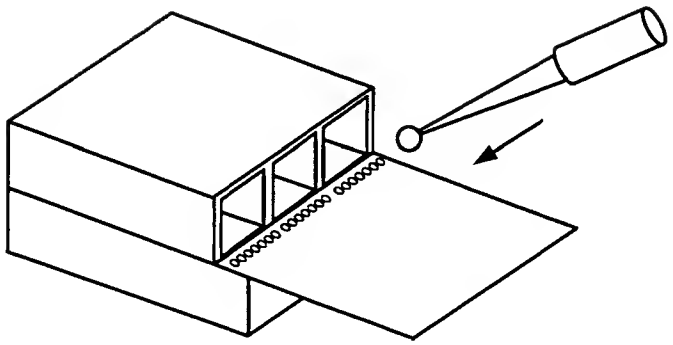

FIG. 6H

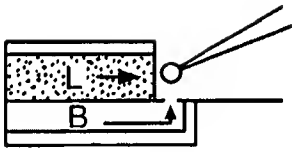

FIG. 6I

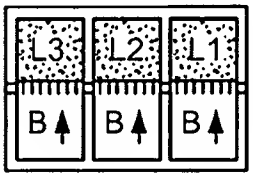

FIG. 6J

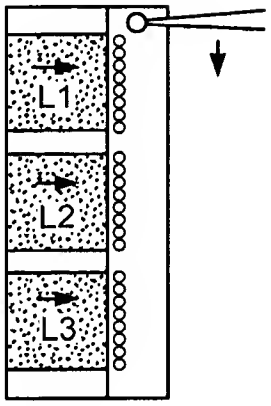

FIG. 6K

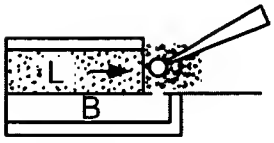

FIG. 6L

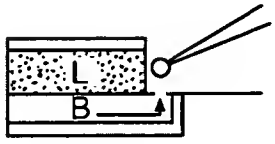

FIG. 6M

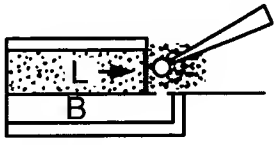

FIG. 6N

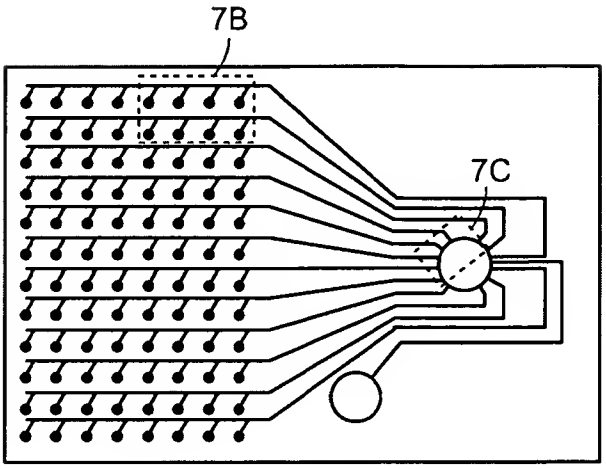

FIG. 7A

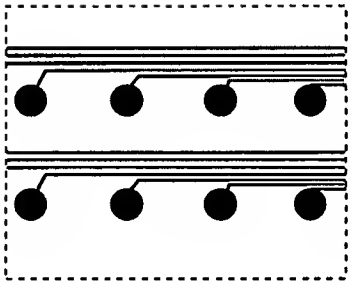

FIG. 7B

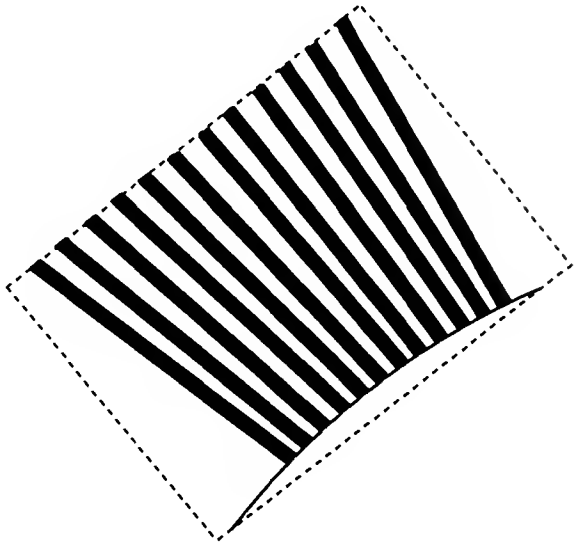

FIG. 7C

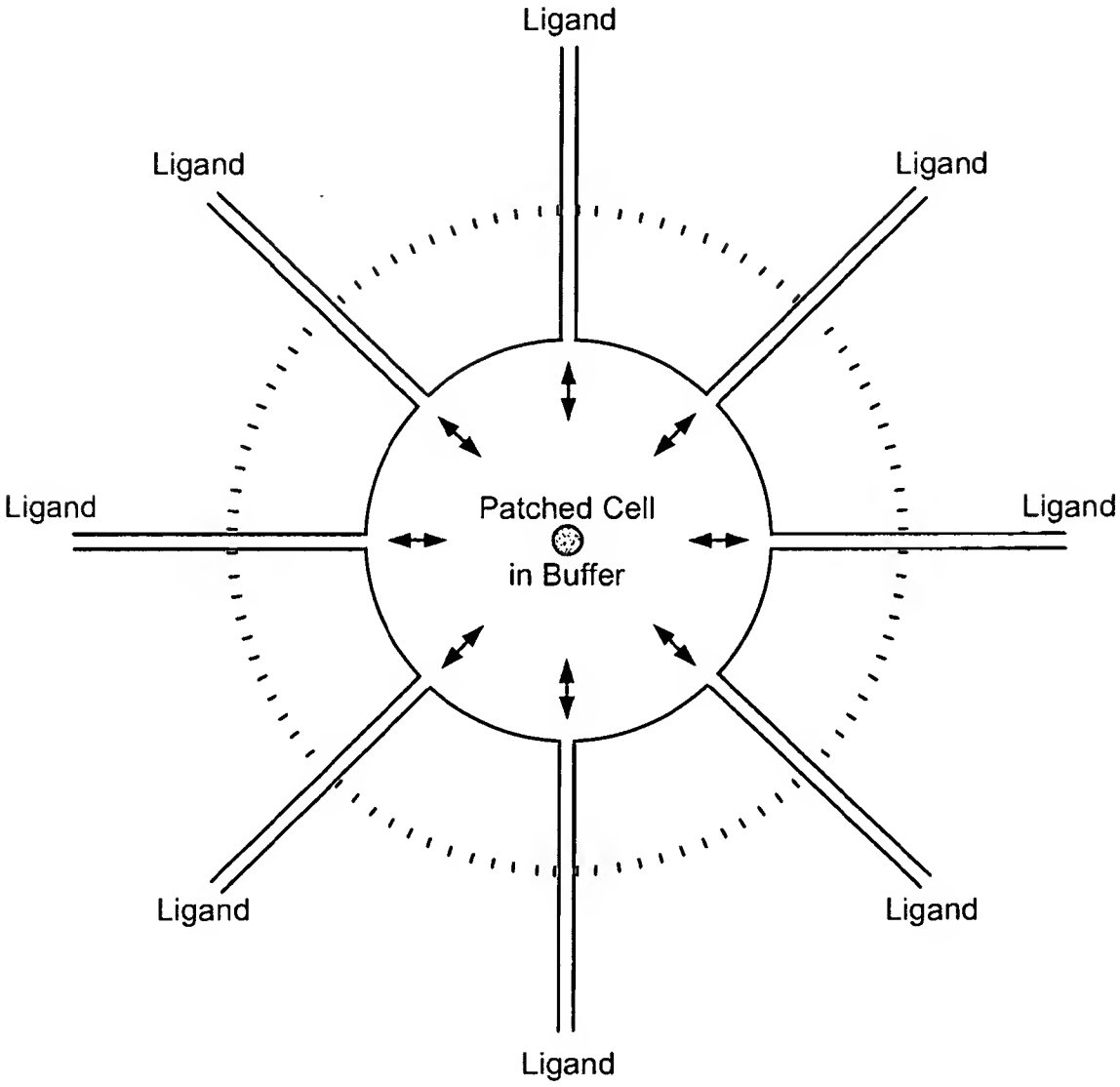
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FIG. 8

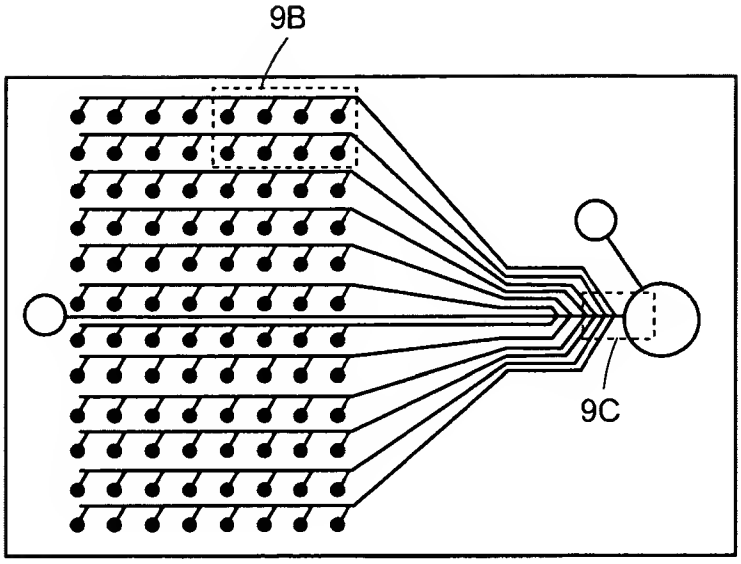

FIG. 9A

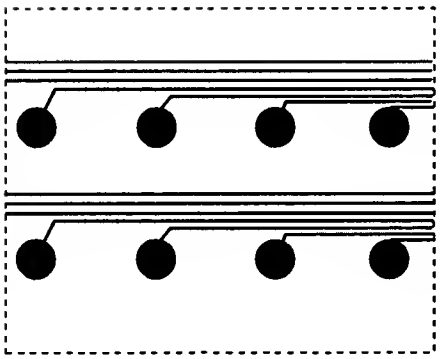

FIG. 9B

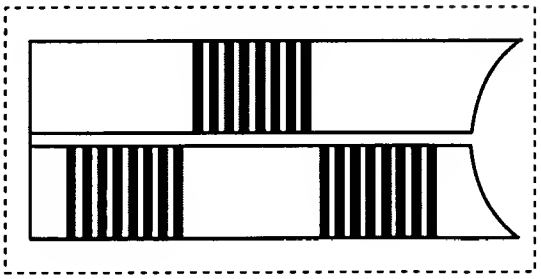

FIG. 9C

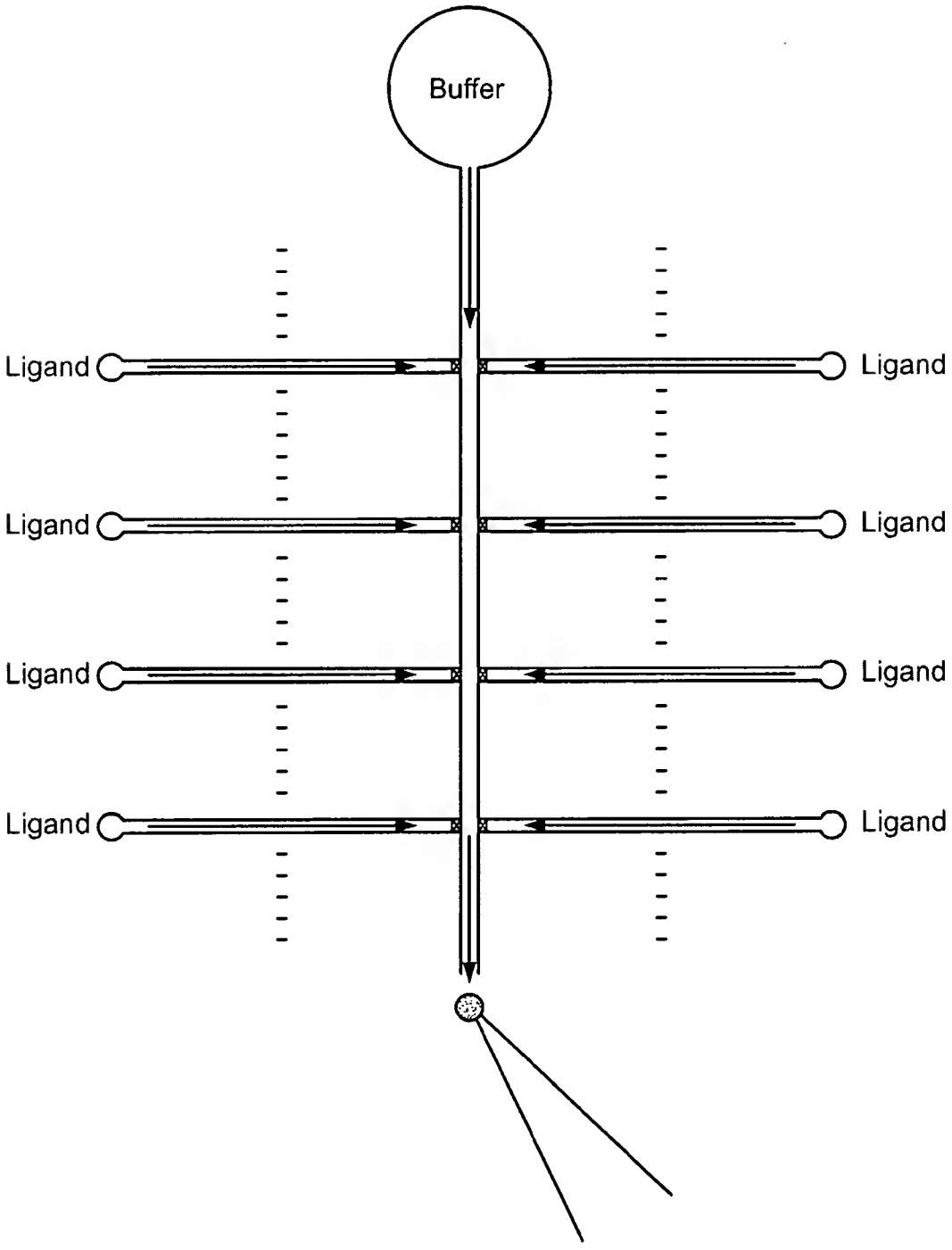
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FIG. 10